EnGenius® DATASHEET

Wireless Outdoor Client Bridge/AP EOC-8610S EXT

2.4 & 5 GHz 802.11 a/b/g 54 Mbps

The Wireless High Power and High Gain Client Bridge/Access Point/ WDS (wireless distribution system) operates seamlessly in the dual band 2.4/5 GHz frequency spectrum supporting the 802.11b (2.4GHz, 11Mbps) and the newer, faster 802.11g (2.4GHz, 54Mbps)/ 802.11a (5GHz, 54Mbps) wireless standards.

EOC-8610S EXT has high transmitted output power and high receivable sensitivity. High output power and high sensitivity can extend range and coverage to reduce the roaming between APs to get more stability wireless connection.

EOC-8610S EXT can collocate with any high gain antenna want for users' environment.

To protect your wireless connectivity, NCB-8610 EXT can encrypt all wireless transmissions through 64/128-bit WEP data encryption and also supports WPA2/WPA/802.1x for powerful security authentication.

The MAC addresses filter lets you select exactly which stations should have access to your network.

Features	Benefits
High Speed Data Rate Up to 54Mbps	Capable of handling heavy data payloads such as MPEG video streaming
High Output Power up to 28dBm in 11b/g	Spreads the operation distance and reduce the roaming between APs to get more stability wireless connection
External Antenna for 2.4/5GHz	Collocate with any antenna for user's environment
IEEE 802.11a/b/g Compliant	Fully Interoperable with IEEE 802.11a/b/g compliant devices
Point-to-point, Point-to-multipoint Wireless Connectivity	Let users transfer data between two buildings or multiple buildings
WPA2/WPA/ IEEE 802.1x support	Powerful data security
Hide SSID (AP Mode)	Avoids unallowable users sharing bandwidth, increases efficiency of the network
DHCP Client/ Server	Simplifies network administration
MAC address filtering (AP Mode)	Ensures secure network connection
Watertight and Weatherproof	Avoid water invaded and weather corroded
Power-over-Ethernet (IEEE802.3af Compliant)	Flexible Access Point locations and cost savings
Layer 2 isolation (AP mode)	Improved the security of each client

* Theoretical wireless signal rate based on IEEE standard of 802.11a, b, g chipset used. Actual throughput may vary. Network conditions and environmental factors lower actual throughput rate.

** All specifications are subject to change without notice. 6/10/2008

Technical Specifications

Data Rates

1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54 Mbps

Standards

IEEE802.11a/b/g, IEEE802.3, IEEE802.3u, IEEE802.3af, IEEE802.1f, IEEE802.1x

Compatibility

IEEE 802.11a/b/g

Power Requirements

Active Ethernet (Power over Ethernet) –48 VDC/0.375A

External Unit: Auto sensing 100/240 VAC; 50/60 Hz

Regulation Certifications

FCC Part 15 B & C,

CE: EN 300328, EN 301489

EN 60950

RF Information

Frequency Band

802.11a:
4.92~5.08GHz
5.18~5.32GHz,
5.50~5.70GHz,
5.745~5.85GHz

802.11b/g: U.S., Europe and Japan product covering 2.4 to 2.462 GHz, programmable for different country regulations

Media Access Protocol

Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA)

Modulation Technology

Orthogonal Frequency Division Multiplexing (OFDM)
DBPSK @ 1Mbps
DQPSK @2Mbps
CCK @ 5.5 & 11Mbps
BPSK @ 6 and 9 Mbps
QPSK @ 12 and 18 Mbps
16-QAM @ 24 and 36 Mbps
64-QAM @ 48 and 54 Mbps

Receive Sensitivity (Typical)

802.11a:
-88dBm @ 6Mbps,
-70dBm @ 54Mbps
802.11g:
-90 dBm @ 6Mbps,
-74 dBm @ 54Mbp
802.11b:
-95 dBm @ 1Mbps
-90 dBm @ 11Mbps

Available Transmit Power (Typical)

- 4.92~5.08 & 5.18~5.32 GHz(IEEE802.11a)
  23dBm @6 ~ 24Mbps
  21dBm @36Mbps
  19dBm @48Mbps
  18dBm @54Mbps
- 5.500~5.700GHz(IEEE802.11a)
  22dBm @6 ~ 24Mbps
  20dBm @36Mbps
  18dBm @48Mbps
  17dBm @54Mbps
- 5.745~5.85GHz (IEEE802.11a)
  21dBm @6 ~ 24Mbps
  19dBm @36Mbps
  17dBm @48Mbps
  16dBm @54Mbps
- 2.4~2.462G(IEEE802.11g)
  26dBm @6 ~ 24Mbps
  24dBm@36Mbps
  23 dBm@48Mbps
  22dBm@54Mbps
- 2.4~2.462G(IEEE802.11b)
  Up to 28dBm @1, 2, 5.5 and 11Mbps

RF Connector

SMA (Fr) Type for **2.4/5GHz**

Networking

Topology

Ad-Hoc, Infrastructure

Operation Mode

Point-to-Point/ Point-to-Multipoint Bridge/ AP/ Client Bridge/ WDS

Interface

Wireless IEEE802.11b/g

One 10/100 RJ-45 port

One console RS-232 port

Security

- WPA/WPA2 Supplicant support in Client Bridge Mode
- WPA /WPA2/ Pre Share KEY (PSK) with TKIP/AES
- MAC address filtering (AP only)
- Hide SSID in beacons
- VLAN Pass-through
- L2 Isolation (AP mode)

IP Auto-configuration

DHCP client/server

Management

Configuration

Web-based configuration (HTTP)
Telnet Configuration
SNMP V1, V2c, MIBI&II

Firmware Upgrade

Upgrade firmware via web-browser

Physical

Dimensions (HxWxD)

163.8(L)mm * 135.2(W)mm * 47.0(H)mm

Weight

1.2 Kg (2.6 lbs)

Environment

Temperature Range

Operating: 0°C to 60°C
Storage: -20°Cto 80°C

Humidity (non-condensing)

5%~95% Typical

Package Contents

- Outdoor Wireless Client Bridge unit
- 48V, 0.375A AC/DC adapter with wall-plug power code
- One **Dual Band** SMA Antenna.
- Inline Power Injector (PoE)
- 1.8m Grounding Cable
- User manual CD-disc
- Wall mounting kit
- Mast mounting kit

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